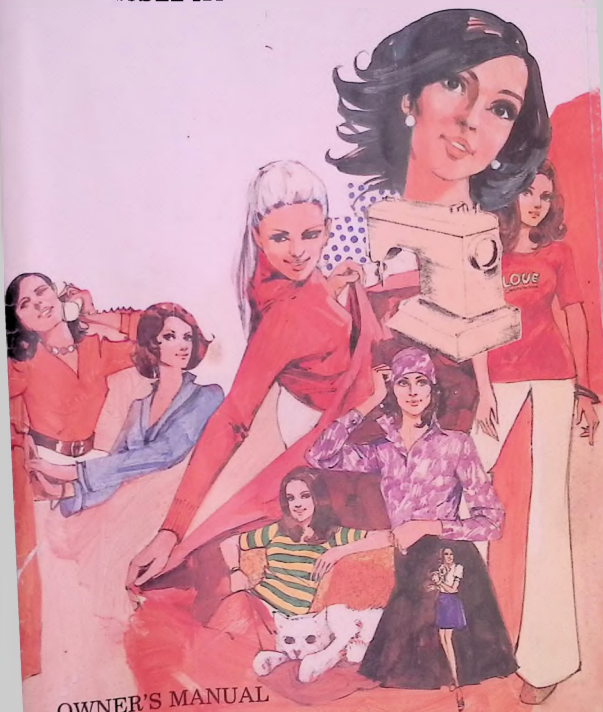


Kenmore

SEWING MACHINE
MODEL 1212



OWNER'S MANUAL

Sears, Roebuck and Co.

Dear Homemaker :

You have just invested in a very fine zigzag sewing machine. Before using your new Kenmore machine, please pause for a moment and carefully read this booklet which contains instructions on how to operate and care for your machine.

Specific instructions are given on threading, tension adjustments, cleaning, oiling, etc. This will help you obtain the best sewing results and avoid unnecessary service expense for conditions beyond our control.

Advice on the operation and care of your machine is always available at your nearest Sears Retail Store. Please remember, if you have questions about your machine, always mention the model number and serial number when you inquire.

Kenmore Sewing Machine

Record in space provided below the model number and serial number of this appliance.

The model number and serial number are located on the nomenclature plate, as identified on Page 3 of this booklet.

Model No. _____ Serial No. _____

Retain these numbers for future reference.

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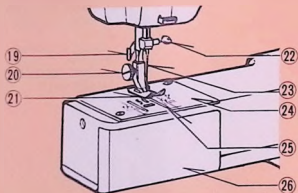
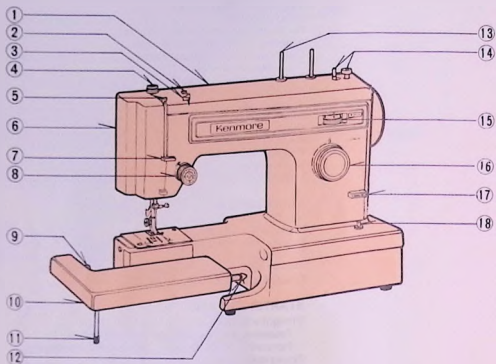
USING PORTABLE CASE OR CABINET

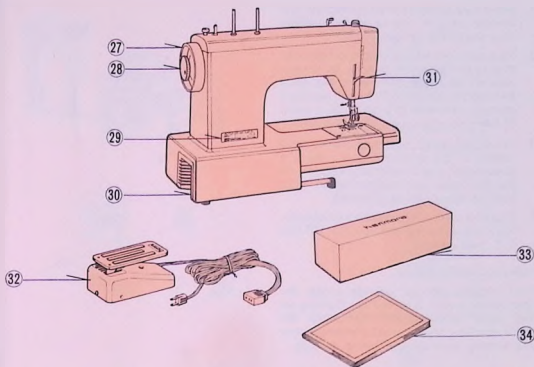
WARRANTY

Inside back cover

KNOWING YOUR SEWING MACHINE

MACHINE IDENTIFICATION





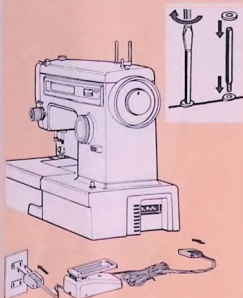
- | | |
|-------------------------------|------------------------------|
| 1. Top cover | 18. Light/power switch |
| 2. Bobbin winder tension disc | 19. Thread cutter |
| 3. Thread guide | 20. Presser foot thumb screw |
| 4. Pressure regulator | 21. Presser foot |
| 5. Take-up lever | 22. Needle clamp screw |
| 6. Face cover | 23. Needle |
| 7. Face cover thread guide | 24. Needle plate |
| 8. Top thread tension control | 25. Feed dogs |
| 9. Guide pin | 26. Shuttle cover |
| 10. Extension table | 27. Hand wheel |
| 11. Support leg | 28. Clutch knob |
| 12. Guide pin | 29. Nomenclature plate |
| 13. Spool pins | 30. Electric cord receptacle |
| 14. Bobbin winder | 31. Presser foot lever |
| 15. Stitch width dial | 32. Foot control |
| 16. Stitch length dial | 33. Accessory box |
| 17. Reverse stitch lever | 34. Owner's manual |

SETTING UP YOUR MACHINE

1. Install your kenmore sewing machine in a kenmore cabinet, case or set the machine on a sturdy flat surface.
2. Your kenmore sewing machine has been thoroughly oiled at the factory. Be sure to wipe off the needle plate area, bed plate and bobbin case carefully before sewing a garment. It is wise to practice on a scrap of fabric so any surplus oil is absorbed.
3. You'll find spool pins and nylon discs packed in the accessory box. Using a screwdriver, attach spool pins securely on the top cover and position nylon discs over the spool pins as indicated.
4. Plug foot control into machine receptacle. Then connect cord into any 110-120 volt A. C. wall outlet.

Important safety feature

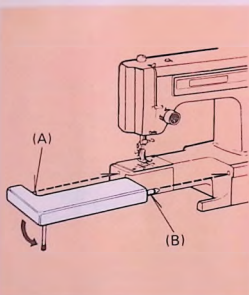
Your machine **will not operate** unless the light/power switch is turned on. Turning on the power automatically illuminates the whole stitching area. If you're interrupted or stop sewing, turn off light/power switch.



INSTALLING EXTENSION TABLE

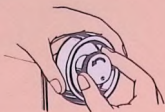
For all flat-bed sewing use the extension table provided with the machine. To install the extension table, simply slide the table along the free arm until the two pins (A) and (B) enter fitting holes in the machine. Lower the support leg.

To utilize free arm feature for sewing tubular material, remove the extension table from the machine by pulling it to the left.

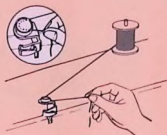


WINDING BOBBIN

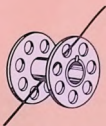
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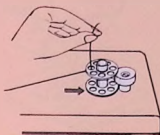
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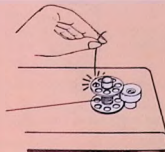
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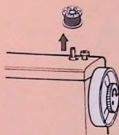
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⑤



⑥

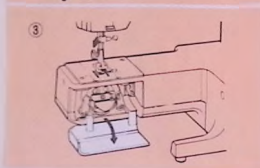
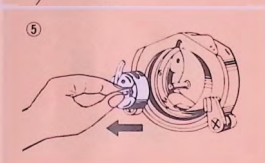
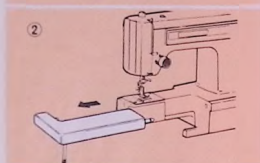
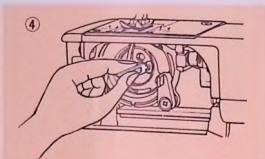
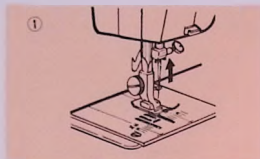


1. Release clutch holding hand wheel and turning clutch knob toward you.
2. Draw thread from spool through bobbin winder tension disc as shown.
3. Pull end of thread through hole in bobbin as shown.
4. Push bobbin winder shaft to far left position, if it is not already there. Place bobbin onto shaft with end of thread

coming from top of bobbin. Push bobbin winder shaft to right until it clicks. Hold onto end of thread.

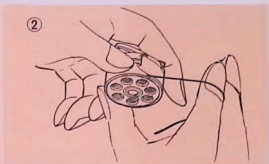
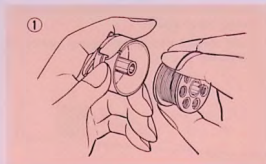
5. Start machine. The thread that is held will snap. Bobbin will cease turning when completely filled. Push shaft to left to remove bobbin.
6. Tighten clutch knob and remove bobbin.

REMOVING BOBBIN CASE FROM SHUTTLE



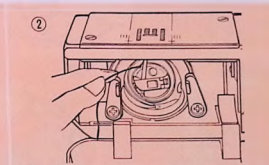
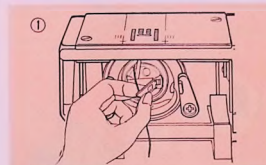
1. Raise needle to its highest position rotating hand wheel toward you.
2. Remove the extension table from machine by pulling it to the left.
3. Open shuttle cover.
4. To remove bobbin case from shuttle, pull open latch of bobbin case.
5. Pull bobbin case straight out of shuttle.
6. Release the latch and bobbin will come out from bobbin case.

INSERTING BOBBIN INTO BOBBIN CASE



1. With the bobbin case in your left hand, place the bobbin into it with the thread running clockwise.
2. Feed the thread through the slot in the case.
3. Pull the thread under the tension plate.
4. Draw 3 to 4 inches of thread from bobbin.

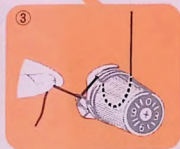
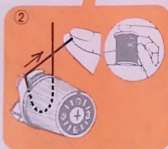
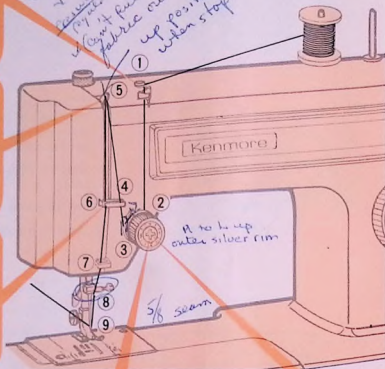
INSERTING BOBBIN CASE INTO SHUTTLE



1. With locating pin straight up, hold the latch open, and slide the bobbin case on to the center spindle of the shuttle.
2. Make sure the locating pin fits into the locating groove at the top of the shuttle. Release the latch to lock the bobbin case into place.

0 - start stitch
any thing after zig zag } average length 10
on orange or 0 satin stitch

THREADING TOP THREAD

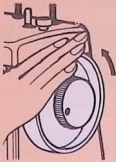


9. The needle must be threaded from front to rear. Draw 3 to 4 inches of thread through eye of needle.

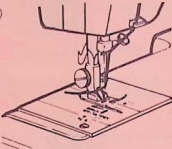
2. Holding the spool stationary with the right hand pull the end of the thread between the tension discs. Pull the end of the thread taut so the spring wire loop passes up and past the top hook. The thread will slip into the hook.
3. Release thread and the spring wire loop will return to position with thread as shown.

PICKING UP BOBBIN THREAD

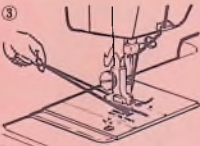
1. Raise presser foot lever. Hold needle thread loosely in left hand and rotate handwheel toward you one complete turn.



2. Bring bobbin thread up by pulling upper thread.



3. Pull both threads under and to the back of the presser foot, leaving 3 to 4 inches of thread clear.



If you can not pick up bottom thread by following above steps, then check,

1. Is your threading through needle?
2. Isn't thread tangled around needle?
3. Is there 3 to 4 inches of lead thread coming out from bobbin case?
4. Isn't lead thread from bobbin case tangled?

*Manually
take it out
around you*

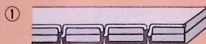
ADJUSTING TOP THREAD TENSION

Probably the most important control on your machine is this one that regulates your top thread tension.

There are many reasons for having to reset your tension. The best tension for one fabric may not be correct for another. The required tension depends upon the stiffness of the fabric, thickness of the fabric, numbers of layers of fabric being sewn, as well as the type of stitch you are making.

It is best to test the stitching on a scrap of the fabric you are using before starting to make a garment. Use the straight stitch function as shown at the right.

don't dry



An ideal straight stitch will have threads locked between the two layers of fabric.

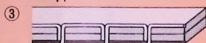
Upper thread too tight



Decrease tension



Upper thread too loose



Increase Tension



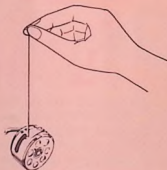
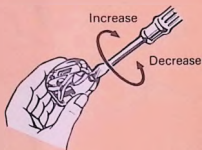
ADJUSTING BOBBIN THREAD TENSION

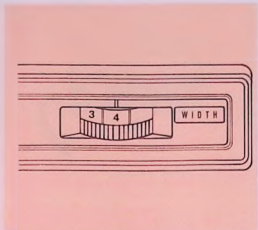
When stitching is unsatisfactory in figures 2 and 3 above, adjust the upper thread tension. **LOWER THREAD TENSION REQUIRES ADJUSTMENT LESS FREQUENTLY THAN THE UPPER THREAD TENSION.**

When stitch is satisfactory, as in Fig. 1 and seam is badly puckered, the cause may be tight tensions and both upper and lower may have to be adjusted.

To test if the bobbin thread tension is correct, suspend the bobbin case by the thread and jerk it once. Correct bobbin tension will result in the thread unwinding only one inch or two. If too loose it will unwind continuously. If too tight the thread will not unwind at all.

When adjusting the tension on the bobbin case, make slight adjustments with a screw-driver.





STITCH WIDTH DIAL

This dial regulates the width of the stitch you select. **THE HIGHER THE NUMBER-THE WIDER THE STITCH.** You may vary your zigzag stitch width by adjusting this dial to the setting you desire.

This dial must be on "0" in order to do straight stitching.



STITCH LENGTH DIAL

The stitch length dial regulates the length of the stitch you select. **THE HIGHER THE NUMBER-THE SHORTER THE STITCH.**

The number on stitch length dial indicates the approximate number of stitches per inch. The stitch setting you use will be determined by the thickness of the fabric you are sewing.

A longer stitch setting should be used for thicker fabric or more layers of fabric. The middle range of the dial is the 10-12 stitch per inch range which is the most commonly used.

A basting stitch is made by using the longest possible stitch setting-6 stitches per inch.

The red marking  on the dial is the setting used for the shortest stitches such as in Satin Stitching.

REVERSE STITCH LEVER

It is best to begin and end seams with a few stitches taken in reverse. This is called back tacking. Back tacking fastens the ends of the seams firmly and prevents raveling.

When reverse stitching is needed, turn the control clockwise and hold there during sewing. The fabric will immediately start feeding backwards and seam will be fastened.



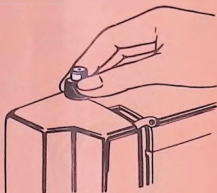
PRESSURE REGULATOR

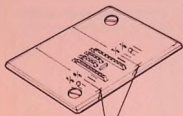
Push down the outer ring of the pressure regulator. This will release the pressure on the presser foot. To increase the pressure, push down inner pin until a suitable pressure is obtained.

Insufficient pressure may cause poor feeding of the fabric, skipped stitches, or difficulty in guiding the fabric. If feed dogs or presser foot marks appear on the fabric, reduce the pressure.

For ordinary sewing, the inner pin should be about half way down.

When sewing multiple thickness or heavy fabric, reduce the pressure. Increase pressure when sewing lighter weight fabrics.



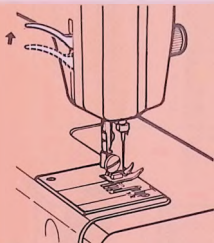


Cornering Guide

SEAM GUIDES

Seam guides are printed on needle plate, at both sides of needle, to help you line up the fabric and keep it straight. The standard seam width is $5/8"$. So these lines are emphasized, easy to follow.

Also the cross lines are "cornering guides" to help when turning a square corner $5/8"$ from the fabric edge. (For details on cornering, see page 18.)



PRESSER FOOT LEVER

Presser foot lever has a two position lift. In order to place heavy fabric under the presser foot or to change the presser foot raise the presser foot lever to its maximum upward position as shown.

ACCESSORIES

NEEDLES

Use KENMORE needles. The size of the needle should conform with the size of the thread and both should suit the fabric. Kenmore needles are color-coded by size for your convenience (See chart on facing page).

Never use a bent needle or one with a dull point.

The exact length of your needle is shown at right. Be sure you never use one in your machine that is not this exact length.

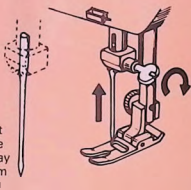
You will find among your accessories a "Q NEEDLE", with blue shank. This special needle is to be used when sewing knits and certain difficult synthetic fabrics. If you experience skipped stitches in any of your sewing, use "Q NEEDLE" and "Q FOOT". *

*Available at most Sears retail stores and catalog.



PLACEMENT OF NEEDLE

Raise needle bar to its highest position by turning the hand wheel toward you. Loosen the needle clamp screw. Holding the needle with the flat side away from you, slip the needle into the needle bar. When it is in as far as it will go, tighten the needle clamp screw with small screwdriver provided in the accessory box.



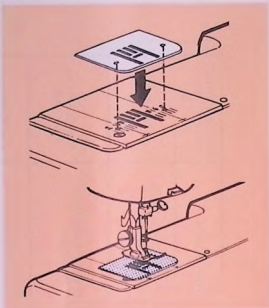
Flat
side
away
from
you

NEEDLE, THREAD AND FABRIC CHART

FABRIC	NEEDLE SIZE AND COLOR	THREAD SIZE	RECOMMENDED STITCH LENGTH SETTING
LIGHTWEIGHT: Batiste, Dimity, Chiffon, Silks, Synthetic Jerseys, Fine Lace, Organza, Crepe, Taffeta, Voile, Organdy	9 BROWN or 11 ORANGE	Polyester Core/Cotton Wrap Fine Mercerized Cotton Silk A	12 stitches per inch
MEDIUMWEIGHT: Cotton, Cotton Blends, Percale, Gingham, Shantung, Pique, Seersucker, Satin, Knits, Vinyl, Suitings, Linen, Wool Crepe, Leather	14-RED	Polyester Core/Cotton Wrap 50 Mercerized Cotton Silk A	10 to 12 stitches per inch
MEDIUM HEAVYWEIGHT: Corduroy, Denim, Wool, Sailcloth, Wool Flannel, Gabardine, Velvets, Leather	14 RED or 16 PURPLE	Polyester Core/Cotton Wrap 50 Mercerized Cotton Mercerized Heavy-Duty Silk A	8 to 10 stitches per inch
HEAVYWEIGHT: Coatings, Upholstery, Cotton Duck, Heavy Twills, Canvas	18-GREEN	Polyester Core/Cotton Wrap Heavy-Duty Mercerized Cotton Polyester Synthetic Silk A	8 stitches per inch
Decorative top-stitching on all types of fabric	16 PURPLE 18- GREEN or Q BLUE	Buttonhole Twist	6 stitches per inch
Synthetic Knits and Stretch: Polyester Double Knits, Nylon Tricot, Jersey, Stretch Terry, Spandex, Cire Tricot	Q-BLUE with "Q FOOT"	Polyester Core/Cotton Wrap 50 Mercerized Cotton	10 for Regular or 6 for Stretch Stitches

DARNING PLATE

There are a few times when you want to control the feeding of the fabric yourself. Raise needle to its highest position and raise presser foot. Place darning plate over needle plate aligning two pins of darning plate with holes of needle plate. You may then determine the movement of the fabric yourself. See page 19 and 22 for sewing application.



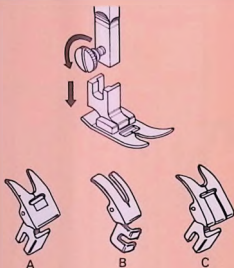
PRESSER FEET

To change the various presser feet, raise the presser bar to its highest position by lifting the presser foot lever (See page 13). Loosen the presser foot thumb screw, choose the proper foot, insert from the front. Lower the presser foot lever and tighten the screw using the large screw driver to make certain the foot is secure.

You have a variety of presser feet:

- A. Zigzag Foot
- B. Straight Stitch Foot
- C. Satin Stitch Foot

Applications are provided in appropriate sewing section.



READY TO SEW? HERE'S YOUR FINAL CHECKLIST...

You may be just learning or "almost professional" ... but if this is a new machine, check these points before you start!

1. **Are you seated comfortably?** Make sure your chair is at right height for the machine with your elbows at the level of sewing surface.
2. **Do you have enough surface space?** When large pieces of fabric are being stitched, they must be well supported to the left of the machine. Otherwise the weight and pull of the fabric can distort the stitching line.
3. **Sit directly in front of needle, if possible.** If you are using machine as a portable, this is easily accomplished. If your machine is in a cabinet, position yourself and the foot control so that your eyes are opposite the needle.
4. **How's the thread?** Double-check to be sure that the ends of the threads have been drawn to about four inches to the rear of the needle. Hold on to threads during sewing of the first few stitches. This eliminates "tangling".
5. **When turning the hand wheel manually, always turn it toward you.**
6. **Test your speed.** Try running the machine at an even speed. It has power to spare for slow sewing which will give you straight even seams. Remember to slow down at curves and corners.

STARTING TO SEW

STRAIGHT STITCHING

Pressure regulator



See page 12.

Presser foot



*Straight, zigzag foot or Q foot

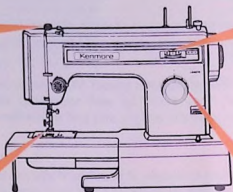
Stitch width dial



Stitch length dial



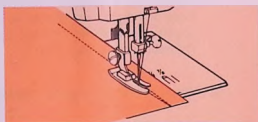
Any setting but "0"



*You may use zigzag, straight stitch foot or Q foot but for best control of fabric, best looking straight stitches and best feeding of fabric use **Straight Stitch Foot**.

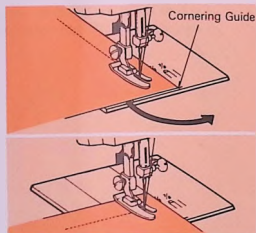
FASTENING A SEAM

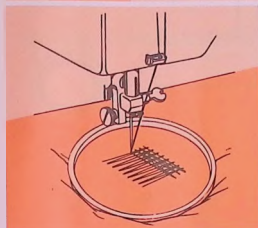
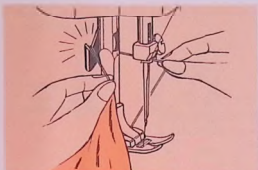
Be sure both threads are drawn back under the presser foot. Lower needle into fabric about 1/2 inch from beginning of seam. Depress the reverse stitch lever and stitch in reverse until needle reaches beginning of seam. Release control and complete seam. When you reach the end, depress the reverse stitch lever and sew back (backtack) over 1/2 inch of completed seam.



TURNING A SQUARE CORNER

To turn a square corner 5/8" from the fabric edge, stop stitching with the needle piercing the fabric, when reaching the cornering guide as shown. Raise the presser foot, turn fabric. New stitching line will align with 5/8" seam guide on side of needle plate. Lower the presser foot and begin stitching in new direction.





REMOVING FABRIC

First turn the handwheel toward you until the needle is at its highest position, then raise the presser foot, draw materials to the rear and cut off excess thread with the thread cutter located on the presser bar as shown.

DARNING

SETTINGS

Darning plate

No Presser Foot

Remove presser foot, stretch fabric between embroidery hoops with hole centered. Draw the bobbin thread up through the fabric by holding the top thread and taking one stitch at the spot where you wish to start darning. Lowering the presser bar, start sewing at a slow to medium speed. Move the fabric back and forth with a steady rhythm to cover the darning area. When it is covered, turn the fabric and sew another layer of stitching across the first layer of stitching.

TIPS ON SMOOTH, SUCCESSFUL SEWING

You'll have fewer "rip-outs" and "do-overs" if you treat these few points as your A-B-Cs of sewing.

"Practice-stitching" is elementary (as with practicing for any new skill, with any new machine!) But when you practice stitch always use two layers of fabric just as if you were sewing a garment. And whenever you start a new project, test the machine stitch on a double thickness of the fabric you will be using. See if the size and color of thread, needle size, tension and length of stitch are all suited to the fabric.

For all sewing, guide the fabric gently with both hands. Never pull or hold the fabric as that will distort normal feeding. Allow the presser foot and feed dogs to feed the fabric. A gentle guiding of fabric in front of the needle is sufficient.

For any permanent seam, be sure to fasten it by back-tacking at the beginning and end of seam.

When sewing over heavy fabric areas (where two seams cross, for example), sew slowly; making certain that the needle is not bent and does not strike front of presser foot.

Always start with the take-up lever at its highest point. Then lower the presser foot, making certain that both needle thread and bobbin threads are at back of presser foot. And when adjusting controls on machine, be sure needle is raised out of fabric.

Whenever your machine is not in use, leave a scrap of fabric under the presser foot to protect the feed dogs. Never run machine without fabric between feed dogs and presser foot.

ZIGZAG STITCHING

Pressure regulator

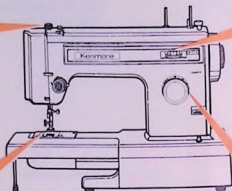


See page 12.

Presser foot



Zigzag foot



Stitch width dial



1 to 4

Stitch length dial



Any setting but "0"

CHECKING THREAD TENSION OF ZIGZAG STITCHES

The easiest way to check tension is to sew a medium zig zag stitch on the fabric you will be using. Use the appropriate type of thread and needle as recommended on page 15.

Sew a line of zig zag stitches. The bobbin thread should not show on the top of the fabric.

Adjust the top tension if necessary to achieve the stitch indicated at left side of illustration.

TOP VIEW



DESIRABLE

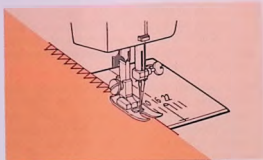


UNDESIRABLE

OVERCASTING

This is one of the more frequently used zigzag stitches on garment construction. You may want to overcast along the raw edge of each seam allowance or fold the raw edge toward the garment and stitch.

Stitch so the needle pierces the fabric just short of the outside edge. Raw or worn edges of older garments can be overcast to prevent further raveling.





SATIN STITCHING

SETTINGS

Stitch Length Dial - Between 0 and 24
Satin Stitch Foot

Closely spaced zigzag stitches are called satin stitches. This is an attractive stitch used for appliqueing, bar tacking.

Whenever you are using this stitch, it is well to remember to loosen the tension of the top thread slightly. The wider the stitch you make, the looser the tension should be.

If you are stitching on a very soft fabric, use a backing of tissue paper or interfacing for a well formed stitch. Puckering of the material will be eliminated and the bobbin thread will not be visible on the right side of the fabric.

As with all special stitches, it is best to make a sample design on your fabric before starting the design on the garment.



BAR TACKING

SETTINGS

Stitch Length Dial - Between 0 and 24
Satin Stitch Foot

This stitch is similar to a very short satin stitch and is used to reinforce points of strain such as corners of pockets and straps on lingerie.

Sew 4 to 6 zigzag stitches.

APPLIQUEING

SETTINGS

Stitch Length Dial - Between 0 and 24
Satin Stitch Foot

Select an applique design to be applied to your garment and baste it in place. Satin stitch around the raw edge of the applique completely covering the edge. You may want to do this with a contrasting color of thread.



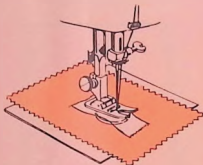
BUTTON SEWING

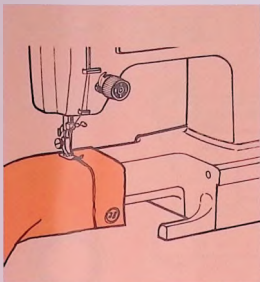
SETTINGS

Use Darning Plate.

1. Fix the button on fabric at desired position with clear tape.
2. Align two holes of button with slot of presser foot and lower foot to hold the button securely.
3. Turn hand wheel manually until needle point is just above button.
4. Adjust stitch width control so needle will enter left hole of the button.
5. Turn hand wheel again by hand so needle enters second hole. Readjust stitch width if necessary. Stitch a number of times.
6. Finish sewing with an extra two inches of thread remaining. Draw these threads to reverse side of garment and tie.

When sewing a flat button, place needle or pin between holes of button as shown to provide flexibility for buttoning.





FREE-ARM SEWING

Your Kenmore sewing machine is easily converted from a traditional flat-bed to a contemporary free-arm sewing machine by removing extension table.

The free arm enables you to sew tubular types of pieces more easily. Just slip the sleeve or pants leg on the free arm as shown.

You will find many uses for this free arm feature such as:

1. Mend elbows and knees of garments more easily.
2. Sew in sleeves more easily. This is especially true when sewing smaller garments.
3. Applique, embroider or hem around edges of cuffs or pants legs.
4. Sewing in elastic casings in skirts or pants at the waistline.



BUTTONHOLE MAKING

Pressure regulator

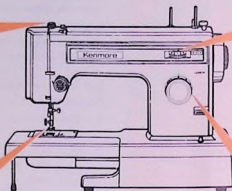


See page 12.

Presser foot



Satin stitch foot



Stitch width dial



1 to 1½

Stitch length dial



Mark the buttonhole length at both ends and also the center line.

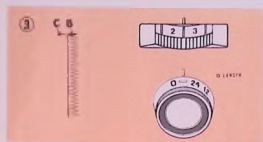
①



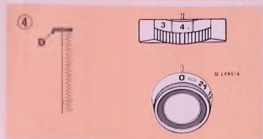
Position fabric under needle. The first stroke of the needle should be to the right and pierce fabrics at point A. Stitch forward on left side of buttonhole until desired length is obtained. Stop with needle in fabric on right side of stitching. Point B.

②

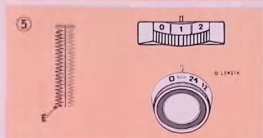




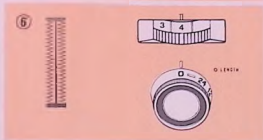
Raise presser foot and turn material and set stitch width control to $2\frac{1}{2}$. Lower presser foot and take one stitch to the left. Point B to C.



Raise presser foot with needle in fabric and set stitch width control to 4. Turn stitch length control to 0 and lower presser foot. Bartack about three stitches. Complete bartacking with needle on the left side of stitching. Point D.



Raise presser foot and reset stitch width control and stitch length control to original setting. Lower presser foot. Sew other side of buttonhole until desired length is obtained. Stop with needle in fabric on left side of stitching. Point E.



Raise presser foot. Set stitch width control to 4, and stitch length control to 0. Lower presser foot and bartack about three (3) stitches. Remove fabric from machine.

Depending upon the fabrics on which you are sewing, or your own preference in buttonholes, you may increase or decrease the width of the sides and the space in the center by varying the original width settings and step 5, up to a maximum of $1\frac{1}{2}$. Remember, an increase in the number will widen the sides. A decrease will narrow the sides.

Always make a practice buttonhole on a scrap of fabric you plan to use. Try the buttonhole with the button you will use.

Always use an interfacing in area of garment where buttonholes are placed. Tissue paper or regular interfacing can be used. Tera paper away after stitching, if it is used.

Checking Performance Problems WHAT TO DO

PROBLEM	PROBABLE CAUSE	CORRECTION
Irregular Stitches	Incorrect size needle. Improper threading. Loose upper thread tension. Pulling fabric. Light pressure on presser foot. Loose presser foot. Unevenly wound bobbin. Nicks or burrs on shuttle hook. Nicks or burrs at hole of needle plate.	Choose correct size needle for thread and fabric. Rethread machine. Tighten upper thread tension. Do not pull fabric; guide it gently. Increase pressure on presser foot. Reset presser foot. Rewind bobbin. Replace shuttle hook or polish off burrs completely. Replace needle plate, or polish off burrs completely.
Breaking Needle	Pulling fabric. Incorrect size needle. Incorrect setting of needle. Loose presser foot.	Do not pull fabric; guide it gently. Choose correct size needle for thread and fabric. Reset needle. Reset presser foot.
Bunching of Thread	Upper and lower threads not drawn back under presser foot before starting seam.	When starting a seam be sure to draw both threads under and back of presser foot about 4" and hold until a few stitches are formed.
Puckering	Incorrect thread tension(s). Light pressure on presser foot. Using two different sizes or kinds of thread. Bent or blunt needle. Loose presser foot. Fabric too sheer or too soft.	Reset thread tension(s). Increase pressure on presser foot. Upper thread and bobbin thread should be same size and kind. Insert new needle. Reset presser foot. Use underlay of tissue paper.

PROBLEM	PROBABLE CAUSE	CORRECTION
Skiping Stitches	Incorrect size needle. Certain knits and synthetics. Bent or blunt needle. Incorrect setting of needle Tight upper thread tension Light pressure on presser foot.	Choose correct size needle for thread and fabric. Use "Q NEEDLE" and "Q FOOT". Insert new needle. Reset needle. Loosen upper thread tension. Increase pressure on presser foot.
Breaking Upper Thread	Starting to stitch too fast. Improper threading. Tight upper thread tension. Incorrect size needle. Sharp eye in needle. Nicks or burrs on shuttle hook. Nicks or burrs at hole of needle plate.	Start to stitch at a medium speed. Rethread machine. Loosen upper thread tension. Choose correct size needle for thread and fabric. Insert new needle. Replace shuttle hook or polish off burrs completely. Replace needle plate, or polish off burrs completely.
Breaking Bobbin Thread	Improper bobbin case threading. Tight bobbin thread tension. Lint in bobbin case or shuttle.	Check bobbin case threading. Loosen bobbin thread tension. Clean bobbin case and shuttle.
Fabric not Moving	Darning plate in place. Light pressure on presser foot. Thread knotted under fabric.	Remove darning plate. Increase pressure on presser foot. Place both threads back under presser foot before beginning to stitch.
Machine Jamming Knocking Noise	Thread caught in shuttle.	Disassemble and clean shuttle.

CARING FOR THE MACHINE

CLEANING AND OILING

Fig. 1 Cleaning the feed dogs with a brush.

To insure the best possible operation of your machine, it is necessary to keep the essential parts clean at all times. Open shuttle access cover and remove needle plate with large screw driver. Then using a small brush, remove the lint that accumulates in the shuttle area and around the feed dogs.

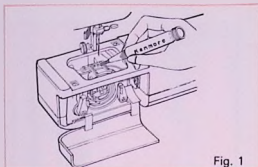


Fig. 1

Fig. 2 Parts of the Shuttle Assembly

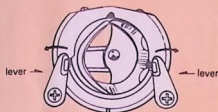
To Clean the Shuttle Area:

1. This area must be kept free of dust, lint and occasional tangled thread. Raise the needle bar to its highest point and remove the bobbin case.
2. Push levers of shuttle race aside and lift shuttle race cover and shuttle out.
3. Clean the shuttle race with small brush.
4. Put a drop of Kenmore sewing machine oil only on the center pin of the shuttle and shuttle race (see arrows on two bottom illustrations).

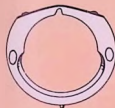
To Replace Shuttle Assembly:

1. Position shuttle race as illustrated so that race is forming half moon on the left side of the machine.
2. Hold shuttle by center pin and position shuttle so as to form a half moon on the right side. Pointed hook will be on the bottom.
3. Place shuttle race cover into place over shuttle assembly.
4. Snap the levers into position.

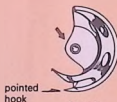
Note: Oil and lint brush No. 6889 is available at most Sears retail stores and catalog.



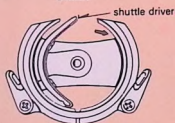
Shuttle Assembly



Shuttle Race Cover



Shuttle

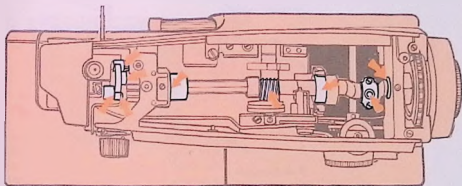
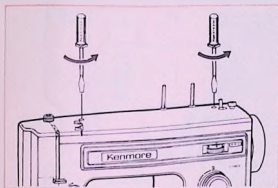


Shuttle Race

Fig. 2

OILING UNDER ARM COVER PLATE

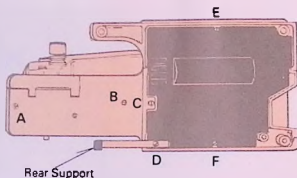
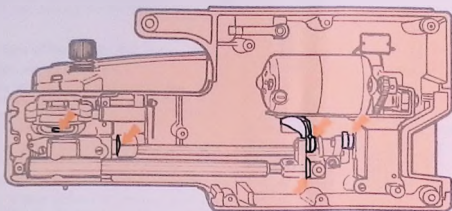
Remove arm cover plate to oil points indicated by arrows in top of machine head. Use one to two drops of Kenmore sewing machine oil at each part. To remove cover plate, loosen up two top screws and lift the cover plate as illustrated below.



OILING UNDERSIDE

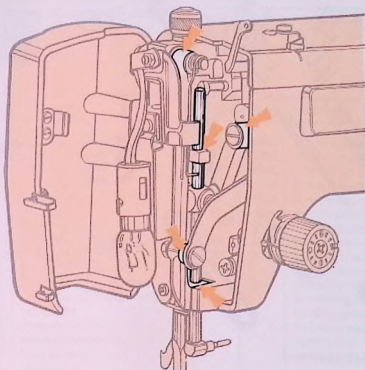
Tilt machine head back and remove bottom covers and rear support to oil points indicated by arrows on underside of machine. To

remove bottom covers and rear support, remove screws (A), (B), (C), (D), (E) and (F) as shown below.



OILING IN FACE COVER PLATE

Swing face cover plate open and oil points indicated by arrows in illustration.

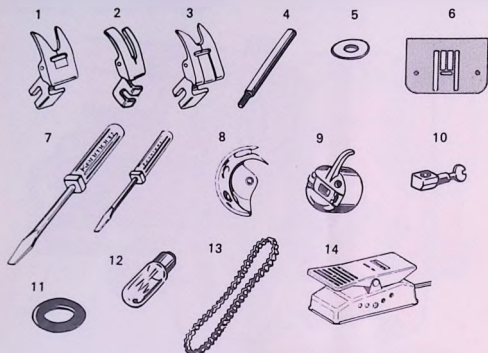


CHANGING LIGHT BULB

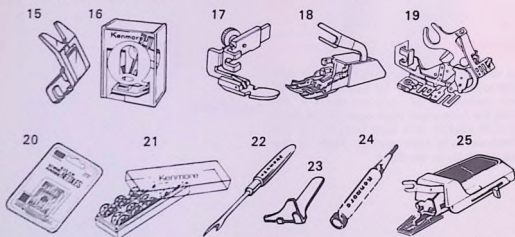
The sewing light is located inside the face cover plate as shown. To replace the bulb, push switch to off, unplug machine and swing the face cover plate open. Push up on the bulb slightly and turn bulb to the left. Withdraw bulb from socket. Push in new bulb and turn to the right.

PARTS LIST

PARTS AND ACCESSORIES PROVIDED WITH MACHINE



OPTIONAL ACCESSORIES



PARTS LIST (Use only genuine Kenmore replacement parts and accessories.)

All parts listed herein may be ordered from any Sears, Roebuck and Co. store or service center.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

1. PART NUMBER
2. PART DESCRIPTION

3. MODEL NUMBER shown on the nomenclature plate. (See page 3 for location.)

4. NAME OF ITEM

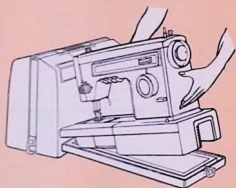
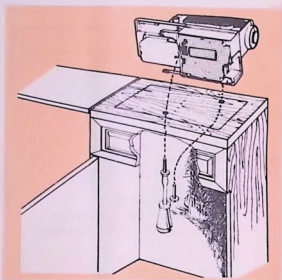
If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for expedited handling.

Ref. No.	Part No.	Description
1	40390	Zigzag presser foot
2	6873	Straight stitch foot
3	6870	Satin stitch foot
4	8286	Thread spool pin
5	2273	Nylon disc
6	45846	Darning plate
7	41670	Large screw driver
	41669	Small screw driver
8	47	Shuttle
9	6510	Bobbin case
10	36353	Needle clamp with screw
11	1939	Bobbin winder rubber ring
12	6797	Light bulb
13	40164	Large motor belt
	56973	Small motor belt
14	6811	Foot control
15	6782	"Q FOOT"
16	6882	"Q SET"
17	6792	Hinged zipper foot
18	6887	Even feed foot
19	6891	Ruffler pleater
20	6550	No. 9 needles
	6551	No. 11 needles
	6552	No. 14 needles

Ref. No.	Part No.	Description
20	6553	No. 16 needles
	6554	No. 18 needles
	6746	"Q NEEDLE"
	6749	Double needle
21	6862	10 bobbins in case
22	6830	Buttonhole opener
23	6864	Needle threader
24	6889	Oil-brush combination
25	6736	Automatic buttonholer makes 3 styles in 10 sizes
	6840	Accessory set (not shown) for heming, edgestitching, binding, gathering, quilting, attaching braid, lace, zippers incl. "Q SET"

YOUR SEWING PLACE IS ALWAYS READY WITH SEARS KENMORE SEWING FURNITURE

A full-line of sewing cabinets is available at your nearest Sears retail store or through our general catalog. Whenever you're ready to sew, so is your sewing place. Another option... buy a Carrying Case... then your Kenmore goes anywhere, can be stored anywhere.







WARRANTY

FULL 25-YEAR WARRANTY ON SEWING MACHINE HEAD

For 25 years from the date of purchase, Sears will, free of charge, repair defects in material or workmanship which appear in the sewing machine head.

FULL TWO YEAR WARRANTY ON ELECTRICAL EQUIPMENT OF SEWING MACHINE

For two years from the date of purchase, Sears will, free of charge, repair defects in material or workmanship which appear in the electrical equipment of the sewing machine, including motor, wiring, switch and speed control.

FULL 90-DAY WARRANTY ON ALL PARTS AND MECHANICAL ADJUSTMENTS

For 90 days from the date of purchase, Sears will, free of charge, replace any parts and provide mechanical service necessary for proper operation of the sewing machine, except for normal maintenance.

To obtain warranty service described above, **SIMPLY CONTACT THE NEAREST SEARS STORE OR SERVICE CENTER IN THE UNITED STATES.**

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

SEARS, ROEBUCK AND CO., Sears Tower, BSC 41-3, Chicago, IL 60684

SEWING MACHINE

Now that you have purchased your Kenmore Sewing Machine, should a need ever exist for repair parts or service, simply contact any Sears Service Center and most Sears, Roebuck and Co. Stores. Be sure to provide all pertinent facts when you call or visit.

The model number of your Sewing Machine will be shown on your nomenclature plate on the back of your Sewing Machine. See page 3 for location.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

*MODEL NUMBER *NAME OF ITEM *PART DESCRIPTION

If the parts you need are not stocked locally, your order will be electronically transmitted to a Sears Repair Parts Distribution Center for handling.

SEARS, ROEBUCK AND CO., Chicago, IL 60684 U.S.A.